VoCALL CFVCCM9 Compact Master

&

VoCALL CFVCCS10 Compact Master

User Guide and Log Book

COOPER Safety
Fire Systems

Site Details

Site Name

Address

Contractor

Commissioned

Maintenance

It is a requirement of BS5839pt9 that a maintenance agreement be in place for the EVCS, the maintenance schedule should be as follows.

Weekly: Lift a different handset each week and make a call to the Master. Repeat each week until all points are tested. Record results in the site log.

Monthly: Test one outstation by lifting the handset, followed by the master calling that outstation. Record results in the site log.

Quarterly: Engineer call to check system operation.

Yearly: Engineer call to check system operation and check battery health.

5 Yearly: Engineer call to check system operation and replace the batteries.

Introduction

An EVCS is a fixed, secure, bi-directional, full duplex voice communication system to assist fire fighters in an emergency in high rise buildings or large sites where radio communication may not work, and covers the operation of fire telephones, disabled refuge systems and the Disabled Toilet Alarm.

The VoCALL Compact Emergency Voice Communications System (EVCS) is designed to fully comply with BS5839-Part 9:2011 (abb. Pt9) for use as a fire telephone system, disabled refuge call system or as a combined system when both fire telephones and disabled refuge points are required.

Suitability

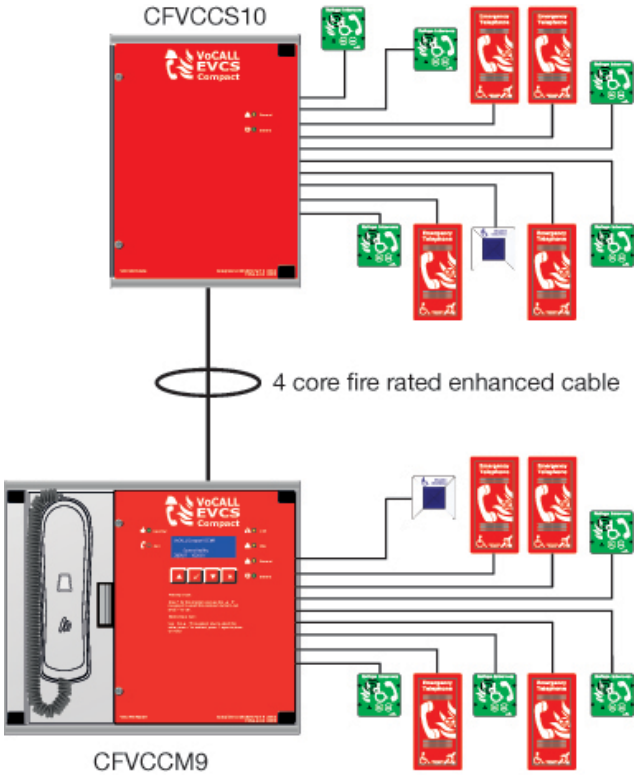
Fire telephone systems are recommended for all public buildings and multi story buildings over four floors by BS9999.

Disabled refuge systems are required by Building Regulations Approved Document B for all non-domestic dwellings. Building Regulations Approved Document B also requires all buildings where the public or disabled staff gain access to any floor other than the ground floor using lifts or stairs are required to exit.

Product Overview

A VoCALL Compact unit (EVCS) comprises of two functional blocks; the master handset and outstations (type A, type B, duo, jack points or disabled toilet alarm), with the quantities of these basic units being adjusted to suit the application, a maximum of 19 outstations can be used for this system. Other sized VoCALL EVCS systems are available.

The VoCALL Compact unit (EVCS) has been designed on a star topology. In most cases this will reduce the cable requirements compared to all ring based systems. The topology consists of spurs, with each spur consisting of 1 off 2 core 1mm CSA cables (see Cable Guidance for VoCALL Network and Outstations section for cable type). Each spur can be up to 500m.



Important Safety Information

This equipment must only be installed and maintained by suitably skilled and competent person.

This equipment is defined as Class 1 in EN60065 (Low Voltage Directive) and must be earthed.

Caution	INDOOR USE ONLY
WARNING	SHOCK HAZARD- ISOLATE BEFORE OPENING
WARNING	TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE
WARNING	THIS UNIT MUST BE EARTHED
WARNING	NO USER SERVICABLE PARTS

Each VoCALL Compact unit requires a 3A spur, returning to a breaker clearly marked **EVCS DO NOT TURN OFF**. If the units are distributed around a site it is essential all units are on the same mains phase as they are classified TEN 230V, powering from different phases can mean a 440V potential can be present in a unit during a major fault incident.

Anti-static handling guidelines

Make sure that electro-static handling precautions are taken immediately before handling PCBs and other static sensitive components.
Before handling any static-sensitive items, operators should get rid of any electrostatic charge by touching a sound safety earth, such as a radiator. Always handle PCBs by their sides and avoid touching any components. PCBs should be stored in a clean, dry place that is free from vibration, dust and excessive heat.

Storing the PCBs in a suitable cardboard box will also guard them against mechanical damage.

Batteries

The compact requires one number 12V 5AH sealed lead acid batteries to provide backup power in the event of mains failure as defined in BS5839pt9 for 24 hours standby and 3 hours operation when powered by normal mains supply.

For 72hour standby and 1 hour operation one number 12V 17AH battery is required, these will need to be fitted in an external battery enclosure. The monitored charger in the VoCALL Compact unit is capable of charging and monitoring these batteries.

Safety Information:

Sealed Lead acid batteries contain sulphuric acid which can cause burns if exposed to the skin. The low internal resistance of these batteries means large currents will flow if they are accidentally short circuited, causing burns and a risk of fire- exercise caution when handling batteries.

Power up Procedure:

Always apply mains power before connecting batteries. Do not commission the VoCALL Compact unit on batteries, as the high inrush current required by the power supply may rupture the battery fuse. Always connect the Positive (Red +) terminal first, then the Negative (Black -)

To down power reverse the power up sequence.

Operation

All conversations on the VoCALL Compact unit are under the command of the CFVCCM9 master handset.

BS5289 Pt9 envisages the majority of calls to be made by lifting the handset of an outstation (Type A) or pressing the call button on a disabled refuge (Type B).

Receiving a Call

When a handset is lifted or the call button is pressed on a Type B unit, the phone on the master handset will ring and the name of the calling outstation will appear on the LCD display (all outstation lines can be given a unique 18 character name to identify themselves such as “Floor 1 Riser E”).

If *User access* is disabled, then the login page is shown instead when a call is received. Log in as either Manager or Engineer to continue onto the call page where the calling outstation is displayed.

The operator can then lift the master handset and connect to the calling outstation by pressing the TICK key. If more than one outstation is calling, all calling outstations show in the display, and may be scrolled through with the navigation buttons, connected using the TICK key, or if already connected placed on hold using the TICK key a second time.

If the CFVCCM9 master handset wishes to ring an outstation, they may do this by scrolling through the names in the directory and pressing TICK over the outstation they want.

If the outstation is defined as a pull cord (disabled toilet alarm), then a continuous tone is heard from the buzzer instead of the master handset ringing when the disabled toilet alarm is activated. This tone is silenced when the Master Handset goes off hook. This tone can also be silenced by pressing the TICK key. The tone will remain silent for 4 minutes, whereupon it will recommence. This tone signifies that the toilet alarm has been activated, and it can occur simultaneously with the Master Handset ringing due to an incoming call from a Type A or Type B handset.

Making a Call

Lift the handset on the master handset, then press the ***** key to scroll the display to the directory page. If user access is disabled, the log in page is shown instead. Log in as Manager or Engineer to continue onto the directory page. Once in the directory use the up and down keys navigation to select the outstation name you require, and then press TICK to call. The outstation will connect when answered.

Calls cannot be initiated to any extension that is defined as a pull cord (disabled toilet alarm).

Ending or Holding a Call

Both call types can be ended by pressing the TICK key on the outstation line you no longer wish to call (if the bell symbol is shown). Pressing TICK while an outstation is speaking or is off hook will place the line on HOLD (the symbol of an off hook phone is shown), you can talk to this line again by scrolling to it and pressing TICK again.

Indications and Controls

The faults on a VoCALL EVCS system are displayed at the Compact 9 Master Unit.

CFVCCM9 Master Unit Indication

The master unit has the following indications:-

Status Indicators

Healthy	The system is ready for use and fault free.
Call	Red indicator showing an outstation is in use on the system
Supply	Indicates the system is energised.

Fault Indicators (Yellow)

Line Fault	A fault exists on one of the lines connected to the CFVCCM9, or the CFVCCS10 if present.
PSU Fault	Either the AC supply or DC supply is unavailable, or a fuse has ruptured.
General Fault	A fault exists on the system.

Fault Log

The Fault Log, Call log, and current faults are accessed by selecting them from the relevant menu. This menu is accessed by pressing ✓ on the Status screen and pressing the up or down keys to scroll through the menu. If not available, then you must log on as Manager or Engineer to access these logs.

CFVCCS10 Slave Unit Indication

The Slave unit has the following indications:-

Status Indicators

Supply	Indicates the system is energised.

Fault Indicators (Yellow)

General Fault	A fault exists on the system.

Certificate of Commissioning for an Emergency Voice Communication System (EVCS) to BS5839 pt 9 (2011)

Site Name _____

Address _____

Customer _____

Address _____

Areas Covered _____

System Design:
In accordance with **section 1** of BS 5839 : Part 9 : 2011 sub clause 6 the system design is has in accordance with the recommendations of this code except for the following:

Installation:
In accordance with **section 3** of BS 5839 : Part 9 : 2011, the wiring has been inspected and tested and been found to be in accordance with the recommendations of this code except for the following:

Commissioning:
In accordance with **Section 4** of BS 5839 : Part 9 : 2011: sub clause **21.2C**

1. Intelligible conversation is heard at all locations.
2. All controls and indicators operate correctly

The system is accepted in good working order and, in accordance with BS5839: Part 9, 2011, record drawings, operating instructions and a system log book have been supplied and received.
Attention has been drawn to the recommendations concerning user's responsibilities, particularly those concerned with routine attention and test procedures in section 5, and an appointed responsible person should be nominated by the customer in accordance with the recommendations of Section 6 of BS5839 : Part 9 : 2011.

Engineer _____

Date _____

Position _____

Signature _____

Site Specific Information

Equipment Locations

CFVCCM9 Master Location_____

Cable ID	Line	Area Served
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	

Equipment Locations

CFVCCS10 Slave Location_____

Cable ID	Line	Area Served
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	

Log Book Page 1

Date	Event or Work Done	Engineer	Company	Signature
	VoCALL System commissioned			

Log Book Page 2

Date	Event or Work Done	Engineer	Company	Signature

Log Book Page 3

Date	Event or Work Done	Engineer	Company	Signature

Log Book Page 4

Date	Event or Work Done	Engineer	Company	Signature

Log Book Page 5

Date	Event or Work Done	Engineer	Company	Signature

Log Book Page 6

Date	Event or Work Done	Engineer	Company	Signature

Log Book Page 7

Date	Event or Work Done	Engineer	Company	Signature

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Trade Descriptions
All descriptions represent only particulars of the goods to which they apply and do not form part of any contract. The company reserves the right to change specification without prior notification or public announcement.

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